



Host services provide managed infrastructure for hosting and the essential and basic managed services for hosted applications supported by SLAs and performance metrics.

### Value

- **Marketplace of building blocks:** Commonly used services, including databases and queues, in an environment that meets regulatory requirements
- **Auditing and logging:** Enhanced debugging efficiency, traceability, and compliance with privacy, security, regulatory standards for all applications being developed
- **Specialized services:** Services to increase developers' visibility into application activity
- **Notifications and configuration:** Facilitations and loosely coupled integrations with other services
- **Environment for cloud-native development:** Environment that meets regulatory requirements to support you in rapidly developing and testing cloud-native applications

### Specialized Services Features

Host service provides specialized services to facilitate the development of cloud-based applications.

- **Auditing** service offers a centralized management service for collecting, and querying audit messages that record data access and usage across applications built using HSDP in a secure manner. Use it to create and retain audit events across your proposition to help you meet regulatory requirements
- **Logging** service provides a centralized log management service for collecting, analyzing, and displaying logs for the cloud-native applications that you can use to analyze performance or bugs
- **Discovery** service allows customers to dynamically discover and retrieve service endpoints (URLs) for their applications. Users, devices, or services can retrieve the (set of) services and corresponding URLs that have been configured for their applications. Currently available only for HSDP services
- **Notification** service provides an event notification mechanism for HSDP-based applications in a service-to-service deployment model where producers or subscribers could be HSDP internal components, HSDP based applications, or HSDP interacting with third-party applications

### Infrastructure Services Features

HSDP provides a variety of managed HSDP and 3rd party databases and queues in a regulatory compliant environment.

#### Managed infrastructure services

- **Orchestration capabilities** enable dependent services to work together seamlessly with HSDP's IAM
- **Abstraction layer** Allows developers to consume the underlying services enables HSDP to add services from different vendors
- **APIs** may have operations restricted to meet security, privacy and regulatory requirements
- **Services are updated** to reflect changes in the infrastructure
- Note: HSDP also offers raw brokered storage services for client needs outside of these platform offerings

#### Examples of managed infrastructure services

- **Databases:** RabbitMQ, RiakKV
- **Service Brokers:** Dynamo DB, RDS Service Broker, Redis Sentinel Service Broker, Vault, Autoscaler
- **Storage:** Archive Storage

### Cloud Foundry Features

HSDP offers the Cloud Foundry environment to support your development and testing of cloud-native solutions.

#### Environment for cloud-native development

- Environment for cloud-native development
- The preferred way to develop cloud-native applications on HSDP
- Meets privacy, security, and regulatory requirements
- Makes it faster and easier to build, test, deploy and scale applications
- Makes it easy to deploy persistent services like databases with service brokers
- Focus on your application. Cloud Foundry provides the framework, language, and operating system

#### Capabilities for Developers

- **Role based developer management** capabilities grant developers, auditors, and operators the roles they need
- **Application health monitoring** so that if your application fails, Cloud Foundry will automatically restart it
- **Rapid horizontal scaling** enables you to use HSDP autoscaler to automatically scale your application, or control scale manually
- **Deploy** your Docker image to Cloud Foundry
- **Monitoring and alerting** enables you to receive email or SMS if your application is having trouble
- **Application performance metrics, centralized logging and automatic load balancing**

Consult [hsdp.io](https://hsdp.io) for details